

**CLAIMS**

I claim:

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1. A brake shoe assembly comprising:  
a brake spider;  
a mounting member supported on said brake spider and including an arcuate surface for supporting a brake lining;  
an anchor pin pivotally mounting one end of said mounting member to said brake spider; and  
a retainer clip attached to said mounting member and cooperating with said anchor pin to maintain proper shoe orientation.
2. An assembly according to claim 1 wherein said retainer clip includes a base member with a connector portion and a pair of legs extending outwardly from opposite ends of said base member to support said anchor pin.
3. An assembly according to claim 2 wherein said anchor pin includes a cylindrical body with a pair of pin ends extending in opposite directions from said body to define a pivot axis and wherein said pin ends are supported by said legs.
4. An assembly according to claim 3 wherein said retainer clip, said anchor pin, and ~~said mounting member~~ all rotate about said pivot axis during brake actuation.

5. An assembly according to claim 3 wherein said mounting member includes a base plate for supporting said brake lining and a pair of spaced apart webbed flanges extending inwardly from said base plate toward said pivot axis, said connector portion engaging said base plate between said flanges to retain said clip on said mounting member.

6. An assembly according to claim 5 wherein said connector portion includes a resiliently biased tab with at least one transversely extending grip for engaging said base plate.

7. An assembly according to claim 3 wherein said mounting member includes a base plate for supporting said brake lining and a pair of spaced apart webbed flanges extending inwardly from said base plate toward the center of the assembly, said connector portion engaging at least one of said webbed flanges to retain said clip on said mounting member.

8. An assembly according to claim 3 wherein said legs have a hook portion for supporting said pin ends.

PROPRIETARY MATERIAL  
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9. A cam brake assembly comprising:

- a first brake shoe including a first backing plate for supporting a first brake lining;
- a second brake shoe including a second backing plate for supporting a second brake lining wherein said second brake lining faces an opposite direction from said first brake lining;
- a brake spider having a first mounting portion for attachment to said first brake shoe and a second mounting portion for attachment to said second brake shoe;
- a first anchor pin pivotally attaching one end of said first brake shoe to said first mounting portion to define a first pivot axis;
- a second anchor pin pivotally attaching one end of said second brake shoe to said second mounting portion to define a second pivot axis;
- an actuator for pivoting opposite ends of said first and second brake shoes about said first and second pivot axes, respectively, during a brake actuation;
- a first retainer clip attached to said first brake shoe for cooperation with said first anchor pin to maintain proper contact and orientation between said first anchor pin and said first brake shoe; and
- a second retainer clip attached to said second brake shoe for cooperation with said second anchor pin to maintain proper contact and orientation between said second anchor pin and said second brake shoe.

10. An assembly according to claim 9 wherein said first retainer clip is attached to said first backing plate and said second retainer clip is attached to said second backing plate.

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11. An assembly according to claim 9 wherein each of said backing plates include a pair of spaced apart transversely extending webbed flanges each defining an engagement surface for contact with said anchor pin.

12. An assembly according to claim 11 wherein said first and second ~~retainer clips~~ are attached to said webbed flanges of said first and second backing plates.

13. An assembly according to claim 11 wherein each of said anchor pins include a cylindrical body and a pair of pin ends of smaller diameter than said body extending outwardly from opposing ends of said body and wherein an exterior surface of said body contacts said engagement surfaces of said webbed flanges.

14. An assembly according to claim 13 wherein each of said retainer clips include a base plate with a pair of hooked legs for supporting said pin ends.

15. An assembly according to claim 11 wherein said first retainer clip, said first brake shoe, and said first anchor pin all pivot about said first pivot axis during a brake actuation and said second retainer clip, said second brake shoe, and said second anchor pin all pivot about said second pivot axis during a brake actuation.

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16. An assembly according to claim 9 wherein each of said retainer clips include a connector portion having a resilient tab with at least one grip for engaging a portion of said brake shoes to retain said clips to said shoes.